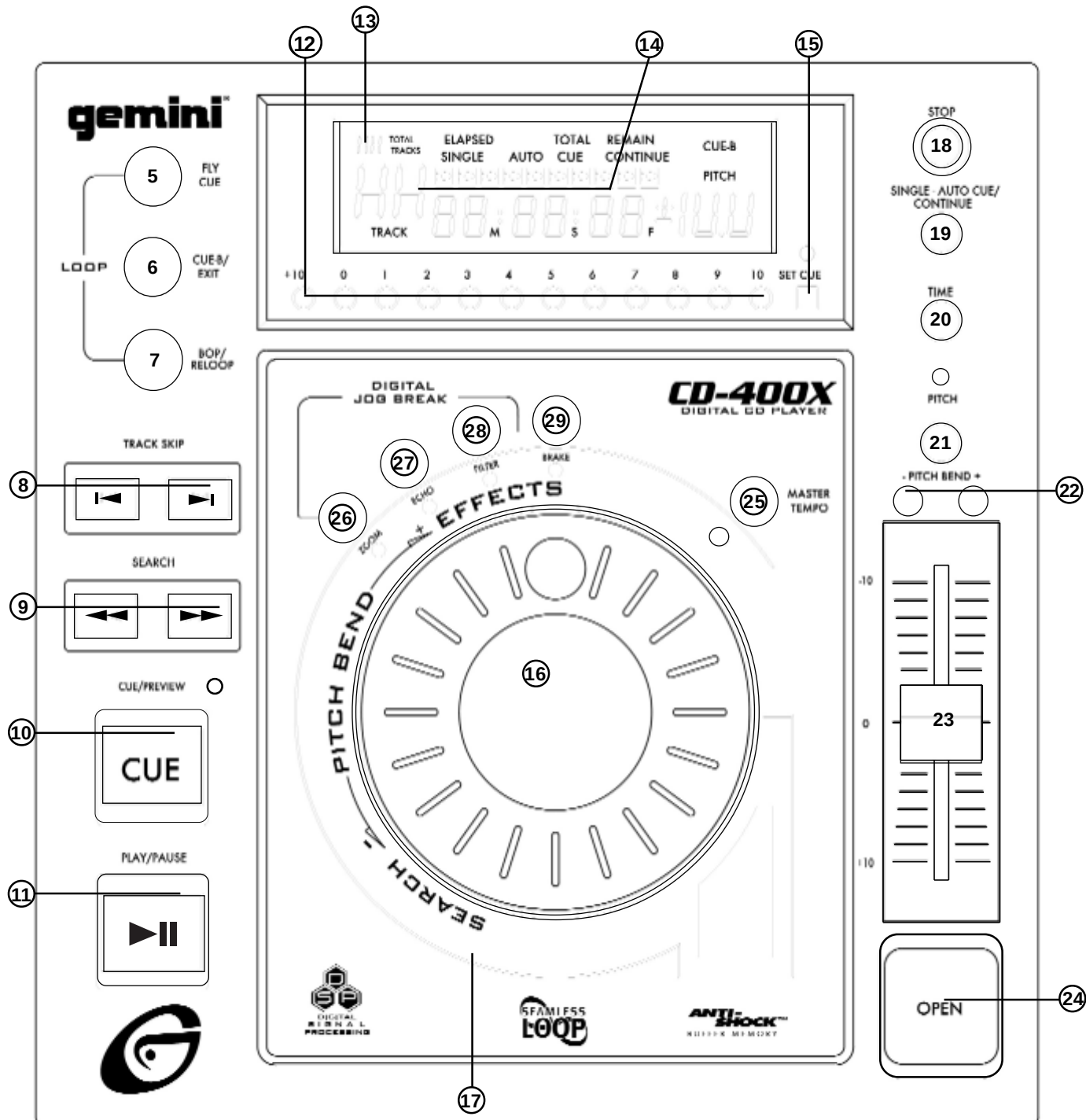
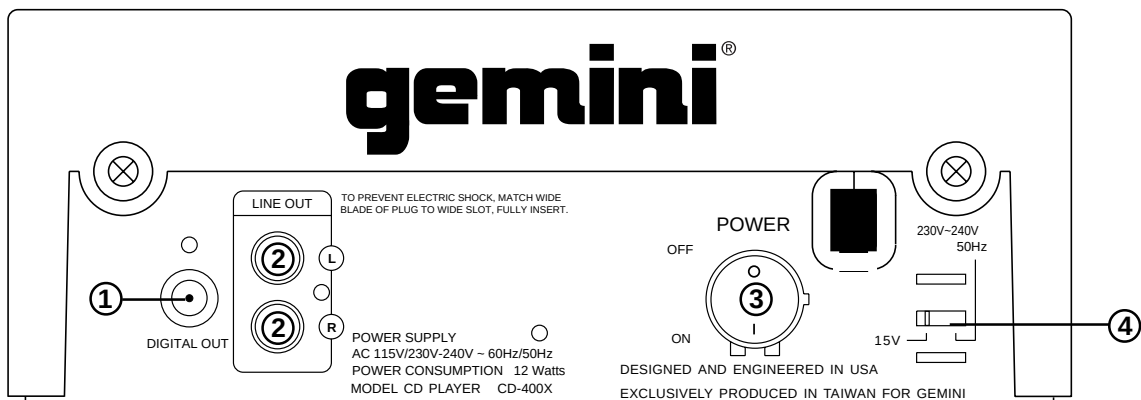


 **gemini**

OPERATIONS MANUAL

CD-400X PROFESSIONAL CD PLAYER



INTRODUCTION

Congratulations on purchasing a Gemini CD-400X CD player. This state of the art professional CD player is backed by a three year warranty, excluding lasers...one year warranty on CD lasers. Prior to use, we suggest that you carefully read all the instructions.

CAUTIONS

1. Do not use this CD player at temperatures below 41°F/5°C or higher than 95°F/35°C.
2. The apparatus should not be exposed to dripping or splashing, and no objects filled with liquids such as vases should be placed on the apparatus.
3. Place the unit in a clean and dry location.
4. Do not place the unit in an unstable location.
5. When disconnecting the power cord from an AC outlet, always grasp it by the plug. Never pull the power cord.
6. To prevent electric shock, do not remove the cover or the bottom screws. There are no user serviceable parts inside. Please refer servicing to a qualified technician.
7. Do not use chemical solvents to clean the unit.
8. Keep the laser pickup clean by keeping the tray closed.
9. Keep this manual in a safe place for future reference.

SAFETY CERTIFICATIONS

Laser Diode Properties

Material: Ga - Al - As

Wavelength: 755 - 815 nm (25° C)

Laser Output: Continuous Wave, max. 0.5mW

LINE VOLTAGE SELECTION

Model CD-400X is a dual voltage unit. It will operate at 115 or 230 volts. To set the proper voltage follow these steps:

1. Place the head of a screw driver in the center of the **VOLTAGE SELECTOR (4)** switch found on the rear panel.
2. Slide the switch left for 115 volts or slide the switch right for 230 volts.
3. Do not force or twist the switch. Excessive force may cause damage. If the switch does not move smoothly, contact a qualified technician.

CONNECTIONS

1. Plug one end of a set of RCA connectors into each of the **LINE OUT (2)** jacks.
2. Plug the other end of the RCA connectors into any available line level input jacks on your mixer. If you are playing the CD-400X through a receiver, you can plug the RCA connectors into the CD or AUX input jacks on your receiver. If there are no CD or AUX inputs, use any line level (not phono) inputs.

FUNCTION DESCRIPTIONS

ANTI-SHOCK BUFFER MEMORY: With **6 SECONDS OF ANTI-SHOCK BUFFER MEMORY**, the CD player stores 6 seconds of future play to ensure that any harsh movement or bumping of the unit will not interrupt play and play will continue smoothly.

POWER SWITCH: After making sure that the **VOLTAGE SELECTOR (4)**, switch found on the rear panel, is properly set, plug the unit in and press the **POWER (3)** switch. The unit will turn on.

DISC TRAY: The **DISC TRAY (17)** is where the CD is held. Pressing the disc tray **OPEN (24)** button will open the tray.

OPEN BUTTON: Press the **OPEN (24)** button to open the **DISC TRAY (17)**.

DISPLAY: The **DISPLAY (13)** shows the track number, pitch value, single-auto cue, continue (for continuous play), and 3 different time displays. These time displays are time elapsed (ELAPSED) on the track, time remaining on the disc (TOTAL REMAIN) and time remaining on the track (REMAIN). Time is measured in minutes, seconds and frames.

PLAYBACK DISPLAY: The **PLAYBACK DISPLAY (14)** displays the time remaining to play and flashes slowly when the track has 30 seconds left. The **PLAYBACK DISPLAY (14)** flashes quickly when the track has 15 seconds left.

PLAY/PAUSE : Each press of the **PLAY/PAUSE (11)** button causes the operation to change from play to pause or from pause back to play. See the CUE INSTRUCTIONS section for more information.

TRACK SKIP : The **TRACK SKIP (8)** buttons let you select the track to play.

SEARCH BUTTONS : The **SEARCH (9)** buttons are used to move forward or reverse while in play or pause mode. See the CUE INSTRUCTIONS section for more information.

JOG WHEEL: The **JOG WHEEL (16)** has two functions. Use the **JOG WHEEL (16)** to make fine adjustments in PAUSE mode. Use the **JOG WHEEL (16)** to bend the pitch for precise synchronization in PLAY mode.

STOP : The **STOP (18)** button will end the playing of the CD.

TIME: The **TIME (20)** button switches the time display between the three available choices listed under **DISPLAY**.

CUE: With the unit in play mode (the play/pause LED will glow), and after the cue point has been set, pressing the **CUE (10)** button will cause the CD player to enter pause mode (the play/pause LED will blink) at the memorized cue point (the cue LED glows yellow). Holding down the cue button changes the cue function to **PREVIEW** allowing you to hear the music play from the cue point. Releasing the cue button returns you to the preset cue point.

FLY CUE: The **FLY CUE (5)** function lets you set cues on the fly with one press of a button. With the unit in the play mode (play/pause LED glows green), press **FLY CUE (5)** at the point where you want the cue point to be (the unit will continue to play). The cue point is now memorized. Press the **CUE (10)** button to return to the memorized cue point. Push the **PLAY/PAUSE (11)** button, and the unit will instantly play from the spot selected.

SET CUE: Use the **SET CUE (15)** button to activate the **DIRECT ACCESS BUTTONS** to set a CUE POINT. See the CUE INSTRUCTIONS section for more information.

DIRECT ACCESS BUTTONS: Use the **DIRECT ACCESS (12)** buttons to select what track to play and to set a CUE POINT. See the CUE INSTRUCTIONS section for more information.

SEAMLESS LOOP: After a cue point is memorized, pressing the **CUE-B/EXIT (6)** button in play mode, (the cue LED BLINKS yellow), repeats the section between the cue point and the point where the **CUE-B/EXIT (6)** button was pressed. Press the **CUE-B/EXIT (6)** button again or pause play to **EXIT** the repeating play.

*Note: If you use the **SET CUE (15)** to set a cue point while the unit is playing and then use it immediately for a loop, there will be a slight delay the first time you play the loop. Avoid this by playing the cue before setting the loop or by using the **FLY CUE (5)** or the **CUE (10)** to set the cue point you want to loop from.*

BOP/RELOOP: The **BOP/RELOOP (7)** button has two functions. To return to a previously saved loop from normal play, press the **BOP/RELOOP (7)** button after saving the loop. To return to and instantly play from a previously saved cue point, press the **BOP/RELOOP (7)** button after setting the cue point (if you do not have a loop saved).

SINGLE-AUTO CUE/CONTINUOUS: Pressing the **SINGLE-AUTO CUE/CONTINUE (19)** button activates the AUTO CUE FUNCTION. The AUTO CUE FUNCTION causes the unit to pause at the beginning of music of the following track and allows you to start play immediately from the start of music without any blank space (which exists at the beginning of every track). Pressing the **SINGLE-AUTO CUE/CONTINUE (19)** button a second time activates the CONTINUOUS function causing the unit to play continuously (after the last track, the

unit will return to the first track of the disc and continue to play). Pressing the **SINGLE-AUTO CUE/CONTINUE (19)** button a third time deactivates the CONTINUOUS function.

PITCH: Pushing the **PITCH (21)** button activates the **PITCH CONTROL (23)**. The pitch of the CD will change according to the position of the **PITCH CONTROL (23)**.

PITCH BEND BUTTONS — **+** : Pushing the **PITCH BEND (22)** buttons will automatically raise the pitch up to +4% or lower the pitch down to -4% from the existing pitch setting. Releasing the buttons will return the pitch to the original pitch setting. You can use this function to match the pitch bend when mixing from one song to another.

DIGITAL OUTPUT JACK: Connecting any type of **DAT, MD, HARD DRIVE**, or other such items which accept digital signals to the **BNC (1)** output connector on the rear panel of the transports allows you to record a digital signal from CD.

MASTER TEMPO BUTTON (25) - This control locks in the music's pitch even when the tempo changes. You can vary the beat with no change in vocal or instrument tone.

EFFECTS BUTTONS - The **ZOOM** button **(26)** changes the delay time by rotating the jog wheel, mixing a short delay with the playback sound. This function allows you to produce the sound of a *jet engine* using a single CD player. The **ECHO** button **(27)** adds echo to the music. The delay time can be adjusted by turning the jog wheel to the left or right. The **FILTER** button **(28)** allows you to change the cutoff frequency of the playback sound when the jog wheel is rotated. This allows the DJ to extract and play back specific parts from the playback sound. The **BRAKE** button **(29)** allows adjustment in the speed at which the CD slows down until it stops.

OPERATING INSTRUCTIONS

1. Make sure that the **VOLTAGE SELECTOR (4)** switch, found on the rear panel, is set for the proper voltage. Plug the unit in and press the **POWER (3)** switch.
2. Press the **OPEN (24)** button, place a CD in the **DISC TRAY (17)** and close the tray door.
3. Push the **TRACK SKIP (8)** buttons to select the track you want to play.
4. Press the **PLAY/PAUSE (11)** button and the unit will instantly play.

CUE INSTRUCTIONS

1. To memorize the spot at which you want play to start, the **CUE POINT**, select the proper track, and then push the **PLAY/PAUSE (11)** button so the unit goes into play mode (the play/pause LED will glow). Listen to the CD and when the CD gets to the approximate spot, push the **PLAY/PAUSE (11)** button so the unit goes into pause mode (the play/pause LED will blink). Move the **JOG WHEEL (16)** or use the **SEARCH (9)** buttons to find the precise spot you want play to begin, and push the **PLAY/PAUSE (11)** to memorize the cue point. Press **CUE (10)** to return to the memorized cue point. Push **PLAY/PAUSE (11)**, and the unit will instantly play from the spot selected.

AND/OR

To use **FLY CUE (5)** to set a cue point, follow these instructions:

1. With the unit in the play mode (play/pause LED glows green), press **FLY CUE (5)** at the point where you want the cue point to be (the unit will continue to play). The cue point is now memorized. Press the **CUE (10)** button to return to the memorized cue point. Push the **PLAY/PAUSE (11)** button, and the unit will instantly play from the spot selected.

To use the **SET CUE (15)** button and the **DIRECT ACCESS (12)** buttons to set a cue point, follow these instructions:

1. Press the **SET CUE (15)** button (the set cue LED will light). Use the **DIRECT ACCESS (12)** buttons to memorize the spot at which you want play to start, the **CUE POINT**, by selecting the proper **track, minute, second and frame**. Push the **CUE (10)** button to set the cue. You can do this in any mode, including PLAY MODE, so that you may cue a track while playing a track. Press the **CUE (10)** button

again to return to the memorized cue point.

***SUGGESTION:** To avoid confusion while setting cue points, keep the time display in ELAPSED TIME mode. When you use the DIRECT ACCESS BUTTONS to set a cue, the track, minute, second and frame are always in elapsed time. If the unit's time display is in TRACK REMAIN or TOTAL REMAIN mode, the track, minute, second and frame displayed will be the remain time and not the track, minute, second and frame you entered.*

2. To fine tune a cue point, pause play at the memorized cue point (the cue LED will glow and the play/pause LED will blink), then use the **JOG WHEEL (16)** or **SEARCH (9)** buttons to scan frame by frame (1/75th of a second) to where you want play to begin (the cue LED will blink while you scan). Press the **PLAY/PAUSE (11)** button to save the new cue point.

***Note:** During fine tuning there will be a stutter effect (to help you find the beat). The stuttering effect will end when you press the PLAY/PAUSE (11) button to save the cue point. Also, during fine tuning if you hold down the SEARCH (9) buttons, the unit will scan quickly after 10 frames.*

TROUBLE SHOOTING

- If the disk will not play, check to see if the disc was loaded correctly (label side up). Also check the disc for excessive dirt, scratches, etc.
- If the disc turns but there is no sound, check the cable connections. If they are okay, check your amplifier or receiver.
- If the CD skips, check the CD for dirt or scratches. Do not assume that the CD player is defective. Many CDs are recorded out of spec and will skip on most or all CD players. Before sending the unit in for repair, try playing a CD that you are sure plays properly.

SPECIFICATIONS

GENERAL:

Disc Type.....Standard Compact discs (12 cm & 8 cm)
Time Display.....Track Elapsed, Track Remain, or Total remain
Variable Pitch.....+/- 10% Slider with Resume Switch
Start.....Within 0.15 seconds
Track Selection.....1 to 99 Tracks

AUDIO SECTION:

Quantization.....1 Bit Linear/Channel, 3 Beam Laser
Oversampling Rate.....8 Times
Sampling Frequency.....44.1 kHz
Frequency Response.....20 Hz to 20 kHz
Total Harmonic Distortion.....Less Than 0.005%
Signal to Noise Ratio.....>96 dB
Dynamic Range.....>94 dB
Output Level (nominal).....1.9 Volts R.M.S.
Power Supply.....AC 115/230V, 60/50 Hz
Dimensions.....9.75" x 8.5" x 3.25" (274 x 216 x 82.5 mm)
Weight.....5 lbs. (2.3 kg)

* Specifications and design are subject to change without notice for purpose of improvement.

**In the USA: If you experience problems with this unit,
call 1-732-738-9003 for Gemini Customer Service.
Do not attempt to return this equipment to your dealer.**

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